

SNC2D Chemistry Summative Task

Name: _____

As you have learned in this unit, chemical compounds are used in everyday life. The purpose of this assignment is for you to study a unique chemical compound and **present the information to your peers in a poster** (plus a 3-D model is required)

From the following list, **choose 1 of the chemical compounds or seek your teacher's approval** to explore another option.

Chemical Compound	One of its many uses
Ammonium nitrate	Fertilizer component
Nitrogen monoxide	Involved in the transmission of nerve impulses.
Nitrogen dioxide	A rocket fuel
Sulphur dioxide	Antiseptic and used in wine making
Sodium hypochlorite	Component of bleach
Calcium chloride	Major component of road salt
Sodium chloride	Food preservative
Nitric acid	Production of explosives like trinitrotoluene (T.N.T.)
Muriatic acid	Heavy-duty masonry cleaning.
Ozone	Protects planet from UV radiation
Acetone	Nail polish remover
Hydrogen peroxide	Antiseptic & disinfectant
Carbon monoxide	Burns without smoke and produces a large amount of heat
Carbon dioxide	Provides the fizz in pop and beer
Ethanol	Alcoholic beverages
methanol	Fuel additive
Methane	Important starting material for the making of solvents
Propane	Fuel
Nitrous oxide	Pain relief during dental surgery

Refer to the format and marking scheme for this assignment on the back of this page to know the assignment requirements.

Your poster must include the following components.

Marking Scheme

/25

Knowledge (12 marks)

The compound's proper chemical name and any common names it may have.

0 1

Hand-drawn molecular model that clearly shows the different elements that makes up the compound Example red to represent hydrogen; black for carbon etc. Remember to include a key

0 1 2

Write a word equation showing how this compound would react with other chemicals. (hint: choose a synthesis, or decomposition, or combustion, single or double displacement reaction)

0 1 2

Convert the word equation into a skeleton (unbalanced) chemical equation

0 1 2

Re-write the skeleton chemical equation and make it a balanced chemical equation

0 1 2

Provide a 3D model of the molecular structure of your chemical compound. **Clearly show the different elements as being different from one another.** Example use red to represent hydrogen; use black for carbon etc. Remember to include a key.

0 1 2 3

Application (8 marks)

Explain how this item is used in the home and industry

0 1 2 3 4

Explain the implications of this compound on the environment (consider: storage, disposal, effect on ecosystem, effect on land, water and/or air)

0 1 2 3 4

Communication (5 marks)

Poster neatness & organization

0 1 2 3 4 5